

**Amendments to the Claims:**

Claims 1-27 were pending in this application. Please cancel claims 1-27 and add the following new claims 28-40:

1.-27. (canceled).

1                   28. (new) A method of monitoring data stored on a primary storage  
2 system comprising:  
3                   creating a sequence of mirrors-in-the-middle, each mirror-in-the-  
4 middle including a copy of data stored on the primary storage system at a fixed point  
5 in time;  
6                   checking a first mirror-in-the-middle of the sequence of mirrors-in-the-  
7 middle to see if a copy of data stored on the first mirror-in-the-middle satisfies at  
8 least one constraint; and  
9                   if not, repeating checking previous mirrors-in-the-middle in the  
10 sequence of mirrors-in-the-middle until one of the checked previous mirrors-in-the-  
11 middle includes an uncorrupted copy of data satisfying the at least one constraint.

1                   29. (new) The method of claim 28 further comprising restoring the  
2 uncorrupted copy of data to the primary storage system.

1                   30. (new) The method of claim 28 wherein checking comprises  
2 scanning for viruses.

1                   31. (new) The method of claim 28 wherein checking comprises  
2 monitoring a database for consistency of constraints.

1                   32. (new) The method of claim 28 further comprising storing the  
2 sequence of mirrors-in-the-middle using a data management appliance.

1                   33. (new) The method of claim 28 further comprising restoring the  
2   copy of data stored on the first mirror-in-the-middle to the primary storage system  
3   if the copy of data stored on the first mirror-in-the-middle satisfies the at least one  
4   constraint.

1                   34. (new) The method of claim 28 further comprising:  
2                   if the copy of data stored on the first mirror-in-the-middle satisfies the  
3   at least one constraint, checking a copy of data stored on at least one additional  
4   mirror-in-the-middle later in the sequence of mirrors-in-the-middle than the first  
5   mirror-in-the-middle to see if the copy of data stored on the at least one additional  
6   mirror-in-the-middle satisfies the at least one constraint.

1                   35. (new) A data management appliance comprising:  
2                   a random-access storage unit storing a sequence of mirrors-in-the-  
3   middle, each mirror-in-the-middle including a copy of data stored on a primary  
4   storage system at a fixed point in time; and  
5                   control logic in communication with the random-access storage unit,  
6   the control logic operative to checking a first mirror-in-the-middle of the sequence  
7   of mirrors-in-the-middle to see if a copy of data stored on the first mirror-in-the-  
8   middle satisfies at least one constraint and, if not, repeating checking previous  
9   mirrors-in-the-middle in the sequence of mirrors-in-the-middle until one of the  
10   checked previous mirrors-in-the-middle includes an uncorrupted copy of data  
11   satisfying the at least one constraint.

1                   36. (new) The data management appliance of claim 35 wherein the  
2   control logic is further operative to restore the uncorrupted copy of data to the  
3   primary storage system.

1                   37. (new) The data management appliance of claim 35 wherein  
2   checking comprises scanning for viruses.

1                   38. (new) The data management appliance of claim 35 wherein  
2 checking comprises monitoring a database for consistency of constraints.

1                   39. (new) The data management appliance of claim 35 wherein the  
2 control logic is further operative to restore the copy of data stored on the first mirror-  
3 in-the-middle to the primary storage system if the copy of data stored on the first  
4 mirror-in-the-middle satisfies the at least one constraint.

1                   40. (new) The data management appliance of claim 35 wherein the  
2 control logic is further operative to check a copy of data stored on at least one  
3 additional mirror-in-the-middle later in the sequence of mirrors-in-the-middle than  
4 the first mirror-in-the-middle to see if the copy of data stored on the at least one  
5 additional mirror-in-the-middle satisfies the at least one constraint if the copy of data  
6 stored on the first mirror-in-the-middle satisfies the at least one constraint.

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